



**Title:** PORPHYRIN-ACCUMULATING TYPE HERBICIDE RESISTANCE GENE

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### Abstract

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Provided are DNA fragments and biologically functional equivalents thereof that confer resistance to porphyrin-accumulating type herbicides upon plant and algal cells, plasmids containing these DNA fragments or biologically functional equivalents thereof, microorganisms containing these DNA fragments or biologically functional equivalents thereof, methods for conferring resistance to porphyrin-accumulating type herbicides upon plant or algal cells using these DNA fragments or biologically functional equivalents thereof, and herbicide-resistant plants or algae into which these DNA fragments or biologically functional equivalents thereof have been introduced and in which they are expressed.